

Anti-CCR5 (NT) Antibody

ORDERING INFORMATION

Catalog No.: 1112

Size: 100 ug IgG in PBS, pH 7.4,
purified by immunoaffinity chroma-
tography.

BACKGROUND

Human immunodeficiency virus (HIV) and related viruses require coreceptors in addition to CD4 to infect target cells. Some G protein-coupled receptors including CCR5, CXCR4, CCR3, CCR2b, CCR8, GPR15, Bonzo, GPR1, and V28, have been identified as HIV coreceptors. Among them, CCR5 is a principal coreceptor for macrophage- and dual-tropic HIV-1 strains. CCR5 is required for infection by HIV-1, HIV-2, and SIV. The β -chemokines RANTES, MIP-1 α , and MIP-1 β are the ligands for CCR5 and prevent infection by macrophage-tropic HIV-1. CCR5 associates with the surface CD4-gp120 of HIV complex and leads to membrane fusion and virus entry of target cells. The amino-terminal domain and the extracellular loops of CCR5 serve as HIV binding sites. Messenger RNA for CCR5 is expressed in lymphoid cells and tissues.

SPECIFICATION SUMMARY

Antigen: Peptide corresponding to aa 6-20 of human CCR5.

Host Species: Rabbit

Stabilizers: None

Preservatives: 0.02% sodium azide.

SPECIFICITY

This antibody recognizes human CCR5 (40 kD).

APPLICATIONS

Immunoblotting: use at 1:1,000-1:2,000 dilution.

Positive control: Whole cell lysate from THP-1 cells.

DILUTION INSTRUCTIONS

Dilute in PBS or medium which is identical to that used in the assay system.

STORAGE AND STABILITY

This antibody is stable for at least one (1) year at -20°C. Avoid multiple freeze-thaw cycles.

For in vitro investigational use only. Not for use in therapeutic or diagnostic procedures.